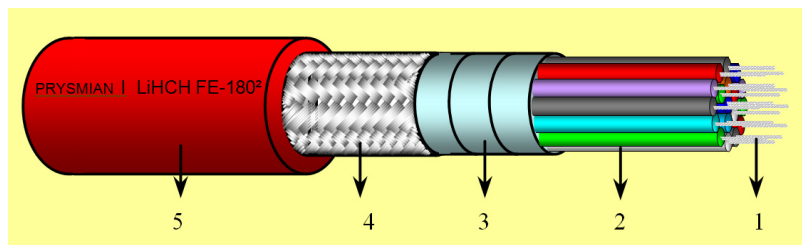


SIGNAL and CONTROL cables

LiHCH FE-180



- 1 Stranded multiwire copper conductor
- 2 Colored LSZH insulation
- 3 Plastic Core wrap
- 4 Screens made of braided tinned copper wires
- 5 Red (RAL 3000) LSZH sheath

Cable construction

The cable consists of stranded multiwire copper conductors with glass-fiber tape and halogen free polymer material. The insulated conductors are twisted to form a pair or conductors form. The cable core consist of pairs or conductors laid up in concentric layers and a plastic tape is wrapped and a tinned copper braid is applied over the core. Then a red LSZH sheath applied on the screened cable core.

Outer sheath thickness according to ÜBM-03-BK-028.

Applications

These cables are used indoors as data transmission cables in automation systems and in the electronic control technology.

Technical Data

For cables

Installation Temperature	-15°C	-	+70°C
Storage Temperature	-30°C	-	+70°C

Cable printing will be as below with the exception of any different requirements from the customer.

PRYSMIAN Cable type Number of pairs, cross section and meter marking <> TSEK <> with black colour

Electrical Characteristics

Following values are guaranteed at +20°C

Cross section (mm ²)	Nom. insulation thickness (mm)	Max conductor resistance at 20 °C M.Ω.km		Min. insulation resistance at 20 °C M.Ω.km	Test Voltage Vaa (1 minute)
0,75	0,4	25,4	26,0	100	1200
1,00		19,1	19,5		
1,50	0,5	13,0	13,3		2500
2,50		7,8	7,98		

Flammability: in accordance with IEC 60332-1 (single cable) and IEC 60331

Smoke evolution: in accordance with IEC 61034

Halogen gas generation: in accordance with IEC 60754

SIGNAL and CONTROL cables

LiHCH FE-180

Cable Core Construction

Insulated conductors or pairs are laid up in layers according to following format and layers are stranded in the same direction.

Number of cores	1st layer	2nd layer	3rd layer
2	2		
3	3		
4	4		
5	5		
6	1	5	
7	1	6	
8	2	6	
9	2	7	
10	3	7	
11	3	8	
12	3	9	
13	4	9	

Number of cores	1st layer	2nd layer	3rd layer
14	4	10	
15	1	5	9
16	1	5	10
17	1	6	10
18	2	6	10
19	1	6	12
20	1	6	13
21	2	6	13
22	1	8	13
23	1	8	14
24	3	9	12
25	3	9	13

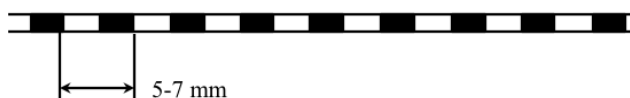
Colour of insulation

Insulation colours of core will be in accordance to ÜBM-03-BK-028 or following sequence

Number of cores	Colour of insulation	
	Basic colour	Code Colour
1	White	
2	Brown	
3	Green	
4	Yellow	
5	Gray	
6	Pink	
7	Blue	
8	Red	
9	Black	
10	Violet	
11	Gray	Pink
12	Red	Blue
13	White	Green

Number of cores	Colour of insulation	
	Basic colour	Code Colour
14	Brown	Green
15	White	Yellow
16	Yellow	Brown
17	White	Hray
18	Gray	Brown
19	White	Pink
20	Pink	Brown
21	White	Blue
22	Brown	Blue
23	White	Red
24	Brown	Red
25	White	Black

Picture of code



© PRYSMIAN GROUP 2012, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alternation afterwards of product may give different results. The information claimed within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. This information is believed to be correct at the time of issue. Prysmian Group reserves the right to ammend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.